

CCCCCAGGGCCCTGGAGAGGTTCTGAAGAACCCTTGGGAGGCCAGCAGCGCCGGGTCCACTCTGGGTTCTGAAAGCCCATTTC	79
CCTGCCTCTGCGGCTCTCTCCACCCCACTCTTCTCAGCCTTSCAGCTCAAGGGTTGATCTCAGGAGTCCAGGAGCCCAAG	158
AGAGGGAAGAATCTGAGGAACACAGAACAGTGAGCGTTGCCCAACCCCATCTCCCGTCACCCACATCTCCCGTCACCGT	237
CACCCCTCCCTGCTGGCCCTGGACCCCATCCGAGGACCTCCCTATCAGCTGACTTCTTCCAGTGTCTTSCAGGCCCCCTC	316
TGGGCTCCTCCCTCCCGTGGCTTTTCTTACCACCTCCCGCTCTATCGGCGCTCTATCTGTAGGTGCCCTGGGATTATATAA	395
ACTGGGTTCCGAATGCTGAATAAGAGACGGTAAGAGCCAAGGCAAAGGACAGCACTGTTCTCTGCCCTGCTGATACCCT	474
M A G G A W G CACCCCTGGGAACATCCCCCAGACACCGCTCTTAACCTCCGGGACAGAG ATG GCT GGC GGA GCC TGG GGC	7 543
R L A C Y L E F L K K E E L K E F Q L L CGC CTG GCC TGT TAC TTG GAG TTC CTG AAG AAG GAG GAG CTG AAG GAG TTC CAG CTT CTG	27 603
L A N K A H S R S S S G E T P A Q P E K CTC GCC AAT AAA GCG CAC TCC AGG AGC TCT TCG GGT GAG ACA CCC GCT CAG CCA GAG AAG	47 663
T S G M E V A S Y L V A Q Y G E Q R A W ACG AGT GGC ATG GAG GTG GCC TCG TAC CTG GTG GCT CAG TAT GGG GAG CAG CGG GCC TGG	67 723
D L A L H T W E Q M G L R S L C A Q A Q GAC CTA GCC CTC CAT ACC TGG GAG CAG ATG GGS CTG AGG TCA CTG TGC GCC CAA GCC CAG	87 783
E G A G H S P S F P Y S P S E P H L G S GAA GGG GCA GGC CAC TCT CCC TCA TTC CCC TAC AGC CCA AGT GAA CCC CAC CTG GGG TCT	107 843
P S Q P T S T A V L M P W I H E L P A G CCC AGC CAA CCC ACC TCC ACC GCA GTG CTA ATG CCC TGG ATC CAT GAA TTG CCG GCG GGG	127 903
C T Q G S E R R V L R Q L P D T S G R R TGC ACC CAG GGC TCA GAG AGA AGG GTT TTG AGA CAG CTG CCT GAC ACA TCT GGA CGC CGC	147 963
W R E I S A S L L Y Q A L P S S P D H E TGG AGA GAA ATC TCT GCC TCA CTC CTC TAC CAA GCT CTT CCA AGC TCC CCA GAC CAT GAG	167 1023
S P S Q E S P N A P T S T A V L G S W G TCT CCA AGC CAG GAG TCA CCC AAC GCC CCC ACA TCC ACA CCA CTG CTG GGG AGC TGG GGA	187 1083
S P P Q P S L A P R E Q E A P G T Q W P TCC CCA CCT CAG CCC AGC CTA GCA CCC AGA GAG CAG GAG GCT CCT GGG ACC CAA TGG CCT	207 1143
L D E T S G I Y Y T E I R E R E R E K S CTG GAT GAA ACG TCA GGA ATT TAC TAC ACA GAA ATC AGA GAA AGA GAG AGA GAG AAA TCA	227 1203
E K G R P P W A A V V G T P P Q A H T S GAG AAA GGC AGG CCC CCA TGG GCA GCG GTG GTA GGA ACG CCC CCA CAG GCG CAC ACC AGC	247 1263
L Q P H H H P W E P S V R E S L C S T W CTA CAG CCC CAC CAC CAC CCA TGG GAG CCT TCT GTG AGA GAG AGC CTC TGT TCC ACA TGG	267 1323
P W K N E D F N Q K F T Q L L L L Q R P CCC TGG AAA AAT GAG GAT TTT AAC CAA AAA TTC ACA CAG CTG CTA CTT CTA CAA AGA CCT	287 1383
H P R S Q D P L V K R S W P D Y V E E N CAC CCC AGA AGC CAA GAT CCC CTG GTC AAG AGA AGC TGG CCT GAT TAT GTG GAG GAG AAT	307 1443
R G H L I E I R D L F G F G L D T Q E P CGA GGA CAT TTA ATT GAG ATC AGA GAC TTA TTT GGC CCA GGC CTG GAT ACC CAA GAA CCT	327 1503
R I V I L Q G A A G I G K S T L A R Q V CGC ATA GTC ATA CTG CAG GGG GCT GCT GGA ATT GGG AAG TCA ACA CTG GCC AGG CAG GTG	347 1563

K E A W G R G Q L Y G D R F Q H V F Y F 367
 AAG GAA GCC TGG GGG AGA GGC CAG CTG TAT GGG GAC CCC TTC CAG CAT GTC TTC TAC TTC 1623

 S C R E L A Q S K V V S L A E L I G K D 387
 AGC TGC AGA GAG CTG GCC CAG TCC AAG GTG GTG AGT CTC GCT GAG CTC ATC GGA AAA GAT 1683

 G T A T P A P I R Q I L S R P E R L L F 407
 GGG ACA GCC ACT CCG GCT CCC ATT AGA CAG ATC CTG TCT AGG CCA GAG CGG CTG CTC TTC 1743

 I L D G V D E P G W V L Q E P S S E L C 427
 ATC CTC GAT GGT GTA GAT GAG CCA GGA TGG GTC TTG CAG GAG CCG AGT TCT GAG CTC TGT 1803

 L H W S Q P Q P A D A L L G S L L G K T 447
 CTG CAC TGG AGC CAG CCA CAG CCG GCG GAT GCA CTG CTG GGC AGT TTG CTG GGG AAA ACT 1863

 I L P E A S F L I T A R T T A L Q N L I 467
 ATA CTT CCC GAG GCA TCC TTC CTG ATC ACG GCT CGG ACC ACA GCT CTG CAG AAC CTC ATT 1923

 P S L E Q A R W V E V L G F S E S S R K 487
 CCT TCT TTG GAG CAG GCA CGT TGG GTA GAG GTC CTG GGG TTC TCT GAG TCC AGC AGG AAG 1983

 E Y F Y R Y F T D E R Q A I R A F R L V 507
 GAA TAT TTC TAC AGA TAT TTC ACA GAT GAA AGG CAA GCA ATT AGA GCC TTT AGG TTG GTC 2043

 K S N K E L W A L C L V P W V S W L A C 527
 AAA TCA AAC AAA GAG CTC TGG GCC CTG TGT CTT GTG CCC TGG GTG TCC TGG CTG GCC TGC 2103

 T C L M Q Q M K R K E K L T L T S K T T 547
 ACT TGC CTG ATG CAG CAG ATG AAG CGG AAG GAA AAA CTC ACA CTG ACT TCC AAG ACC ACC 2163

 T T L C L H Y L A Q A L Q A Q P L G P Q 567
 ACA ACC CTC TGT CTA CAT TAC CTT GCC CAG GCT CTC CAA GCT CAG CCA TTG GGA CCC CAG 2223

 L R D L C S L A A E G I W Q K K T L F S 587
 CTC AGA GAC CTC TGC TCT CTG GCT GCT GAG GGC ATC TGG CAA AAA AAG ACC CTT TTC AGT 2283

 P D D L R K H G L D G A I I S T F L K M 607
 CCA GAT GAC CTC AGG AAG CAT GGG TTA GAT GGG GCC ATC ATC TCC ACC TTC TTG AAG ATG 2343

 G I L Q E H P I P L S Y S F I H L C F Q 627
 GGT ATT CTT CAA GAG CAC CCC ATC CCT CTG AGC TAC AGC TTC ATT CAC CTC TGT TTC CAA 2403

 E F F A A M S Y V L E D E K G R G K H S 647
 GAG TTC TTT GCA GCA ATG TCC TAT GTC TTG GAG GAT GAG AAG GGG AGA GGT AAA CAT TCT 2463

 N C I I D L E K T L E A Y G I H G L F G 667
 AAT TGC ATC ATA GAT TTG GAA AAG ACG CTA GAA GCA TAT GGA ATA CAT GGC CTG TTT GGG 2523

 A S T T R F L L G L L S D E G E R E M E 687
 GCA TCA ACC ACA CGT TTC CTA TTG GGC CTG TTA AGT GAT GAG GGG GAG AGA GAG ATG GAG 2583

 N I F H C R L S Q G R N L M Q W V P S L 707
 AAC ATC TTT CAC TGC CGG CTG TCT CAG GGG AGG AAC CTG ATG CAG TGG GTC CCG TCC CTG 2643

 Q L L L Q P H S L E S L H C L Y E T R N 727
 CAG CTG CTG CTG CAG CCA CAC TCT CTG GAG TCC CTC CAC TGC TTG TAC GAG ACT CGG AAC 2703

 K T F L T Q V M A H F E E M G M C V E T 747
 AAA ACG TTC CTG ACA CAA GTG ATG GCC CAT TTC GAA GAA ATG GGC ATG TGT GTA GAA ACA 2763

 D M E L L V C T F C I K F S R H V K K L 767
 GAC ATG GAG CTC TTA GTG TGC ACT TTC TGC ATT AAA TTC AGC CGC CAC GTG AAG AAG CTT 2823

 Q L I E G R Q H R S T W S P T M V V L F 787
 CAG CTG ATT GAG GGC AGG CAG CAC AGA TCA ACA TGG AGC CCC ACC ATG GTA GTC CTG TTC 2883

 R W V P V T D A Y W Q I L F S V L K V T 807

FIG. 1B

AGG TGG GTC CCA GTC ACA GAT GCC TAT TGG CAG ATT CTC TTC TCC GTC CTC AAG GTC ACC 1943
 R N L K E L D L S G N S L S H S A V K S 327
 AGA AAC CTG AAG GAG CTG GAC CTA AGT GGA AAC TCG CTG AGC CAC TCT GCA GTG AAG AGT 3003
 L C K T L R R P R C L L E T L R L A G C 847
 CTT TGT AAG ACC CTG AGA CGC CCT CGC TGC CTC CTG GAG ACC CTG CGG TTG GCT GGC TGT 3063
 G L T A E D C K D L A F G L R A N Q T L 867
 GGC CTC ACA GCT GAG GAC TCC AAG GAC CTT GCC TTT GGG CTG AGA GCC AAC CAG ACC CTG 3123
 T E L D L S F N V L T D A G A K H L C Q 887
 ACC GAG CTG GAC CTG AGC TTC AAT GTG CTC ACG GAT GCT GGA GCC AAA CAC CTT TGC CAG 3183
 R L R Q P S C K L Q R L Q L V S C G L T 907
 AGA CTG AGA CAG CCG AGC TGC AAG CTA CAG CGA CTG CAG CTG GTC AGC TGT GGC CTC ACG 3243
 S D C C Q D L A S V L S A S P S L K E L 927
 TCT GAC TGC TGC CAG GAC CTG GCC TCT GTG CTT AGT GCC AGC CCC AGC CTG AAG GAG CTA 3303
 D L Q Q N N L D D V G V R L L C E G L R 947
 GAC CTG CAG CAG AAC AAC CTG GAT GAC GTT GGC GTG CGA CTG CTC TGT GAG GGG CTC AGG 3363
 H P A C K L I R L G L D Q T T L S D E M 967
 CAT CCT GCC TGC AAA CTC ATA CGC CTG GGG CTG GAC CAG ACA ACT CTG AGT GAT GAG ATG 3423
 R Q E L R A L E Q E K P Q L L I F S R R 987
 AGG CAG GAA CTG AGG GCC CTG GAG CAG GAG AAA CCT CAG CTG CTC ATC TTC AGC AGA CGG 3483
 K P S V M T P T E G L D T G E M S N S T 1007
 AAA CCA AGT GTG ATG ACC CCT ACT GAG GGC CTG GAT ACG GGA GAG ATG AGT AAT AGC ACA 3543
 S S L K R Q R L G S E R A A S H V A Q A 1027
 TCC TCA CTC AAG CGG CAG AGA CTC GGA TCA GAG AGG GCG GCT TCC CAT GTT GCT CAG GCT 3603
 N L K L L D V S K I F P I A E I A E E S 1047
 AAT CTC AAA CTC CTG GAC GTG AGC AAG ATC TTC CCA ATT GCT GAG ATT GCA GAG GAA AGC 3663
 S P E V V P V E L L C V P S P A S Q G D 1067
 TCC CCA GAG GTA GTA CCG GTG GAA CTC TTG TGC GTG CCT TCT CCT GCC TCT CAA GGG GAC 3723
 L H T K P L G T D D D F W G P T G P V A 1087
 CTG CAT ACG AAG CCT TTG GGG ACT GAC GAT GAC TTC TGG GGC CCC ACG GGG CCT GTG GCT 3783
 T E V V D K E K N L Y R V H F P V A G S 1107
 ACT GAG GTA GTT GAC AAA GAA AAG AAC TTG TAC CGA GTT CAC TTC CCT GTA GCT GGC TCC 3843
 Y R W P N T G L C F V M R E A V T V E I 1127
 TAC CGC TGG CCC AAC ACG GGT CTC TGC TTT GTG ATG AGA GAA GCG GTG ACC GTT GAG ATT 3903
 E F C V W D Q F L G E I N P Q H S W M V 1147
 GAA TTC TGT GTG TGG GAC CAG TTC CTG GGT GAG ATC AAC CCA CAG CAC AGC TGG ATG GTG 3963
 A G P L L D I K A E P G A V E A V H L P 1167
 GCA GGG CCT CTG CTG GAC ATC AAG GCT GAG CCT GGA GCT GTG GAA GCT GTG CAC CTC CCT 4023
 H F V A L Q G G H V D T S L F Q M A H F 1187
 CAC TTT GTG GCT CTC CAA GGG GGC CAT GTG GAC ACA TCC CTG TTC CAA ATG GCC CAC TTT 4083
 K E E G M L L E K P A R V E L H H I V L 1207
 AAA GAG GAG GGG ATG CTC CTG GAG AAG CCA GCC AGG GTG GAG CTG CAT CAC ATA GTT CTG 4143
 E N P S F S P L G V L L K M I H N A L R 1227
 GAA AAC CCC AGC TTC TCC CCC TTG GGA GTC CTC CTG AAA ATG ATC CAT AAT GCC CTG CGC 4203
 F I P V T S V V L L Y H R V H P E E V T 1247
 TTC ATT CCC GTC ACC TCT GTG GTG TTG CTT TAC CAC CGC GTC CAT CCT GAG GAA GTC ACC 4263

FIG. 1C

P H L Y L I P S D C S I R K E L E L C Y	1267
TTC CAC CTC TAC CTG ATC CCA AGT GAC TGC TCC ATT CGG AAG GAA CTG GAG CTC TGC TAT	4323
R S P G E D Q L F S E F Y V G H L G S G	1287
CGA AGC CCT GGA GAA GAC CAG CTG TTC TCG GAG TTC TAC GTT GGC CAC TTG GGA TCA GGG	4383
I R L Q V K D K K D E T L V W E A L V K	1307
ATC AGG CTG CAA GTG AAA GAC AAG AAA GAT GAG ACT CTG GTG TGG GAG GCC TTG GTG AAA	4443
P G D L M P A T T L I P P A R I A V P S	1327
CCA GGA GAT CTC ATG CCT GCA ACT ACT CTG ATC CCT CCA GCC CGC ATA GCC GTA CCT TCA	4503
P L D A P Q L L H F V D Q Y R E Q L I A	1347
CCT CTG GAT GCC CCG CAG TTG CTG CAC TTT GTG GAC CAG TAT CGA GAG CAG CTG ATA GCC	4563
R V T S V E V V L D K L H G Q V L S Q E	1367
CGA GTG ACA TCG GTG GAG GTT GTC TTG GAC AAA CTG CAT GGA CAG GTG CTG AGC CAG GAG	4623
Q Y E R V L A E N T R P S Q M R K L F S	1387
CAG TAC GAG AGG GTG CTG GCT GAG AAC ACG AGG CCC AGC CAG ATG CGG AAG CTG TTC AGC	4683
L S Q S W D R K C K D G L Y Q A L K E T	1407
TTG AGC CAG TCC TGG GAC CCG AAG TGC AAA GAT GGA CTC TAC CAA GCC CTG AAG GAG ACC	4743
H P H L I M E L W E K G S K K G L L P L	1427
CAT CCT CAC CTC ATT ATG GAA CTC TGG GAG AAG GGC AGC AAA AAG GGA CTC CTG CCA CTC	4803
S S	1430
AGC AGC TGA	4812
AGTATCAACACCAGCCCTTGACCCTTGAGTCCTGGCTTTGGCTGACCCTTCITTTGGGTCTCAGTTTCTTTCTCTGCAA	4891
CAAGTTGCCATCTGGTTTTGCCCTTCCAGCACTAAAGTAATGSAACTTTSGATGATGCCCTTTGCTGGGCATTATGTGTCCAT	4970
GCCAGGGATGCCACAGGGGGCCCCAGTCCAGGTGGCCTAACAGCATCTCAGGGAATGTCCATCTGGAGCTGGCAAGACC	5049
CCTGCAGACCTCATAGAGCCTCATCTGGTGGCCACAGCAGCCAAAGCCTAGAGCCCTCCGATCCCATCCAGGCGCAAAG	5128
AGGAATAGGAGGGACATGGAACCATTTGCCCTCTGGCTGTGTGCACAGGGTGAGCCCCAAAATTGGGGTTCAGCGTGGGAG	5207
GCCACGTGGATTCTTTGGCTTTGTACAGGAAGATCTACAAGAGCAAGCCAACAGAGTAAAGTGAAGGAAGTTTATTGAG	5286
AAAAATAAGGAGTATCACAGCTCTTTTAGAATTTGTCTAGCAGGCTTTCCAGTTTTTACCAGAAAACCCCTATAAATTA	5365
AAAAATTTTTTACTTTAAATTTAAGAATTAATAAATAACAAAAAGAAAAATGAAAAATAAGGAATAAGAAGTTACCTAC	5444
AAAAATTTTTTACTTTAAATTTAAGAATTAATAAATAACAAAAAGAAAAATGAAAAATAAGGAATAAGAAGTTACCTAC	5444

FIG. 1D

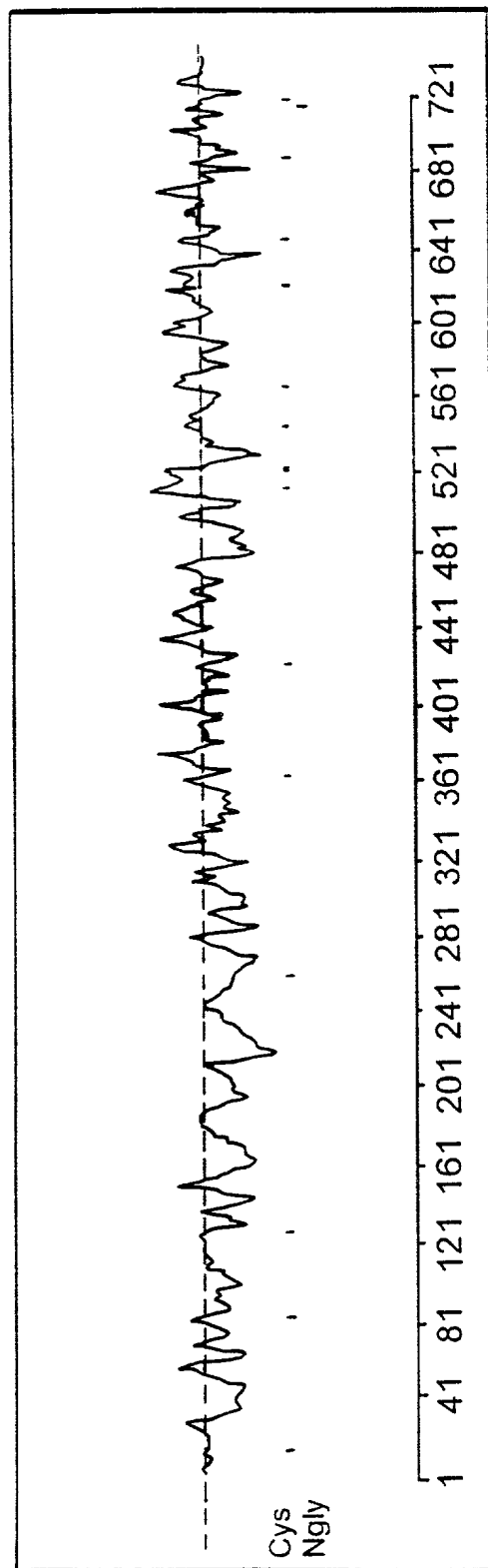


FIG. 2

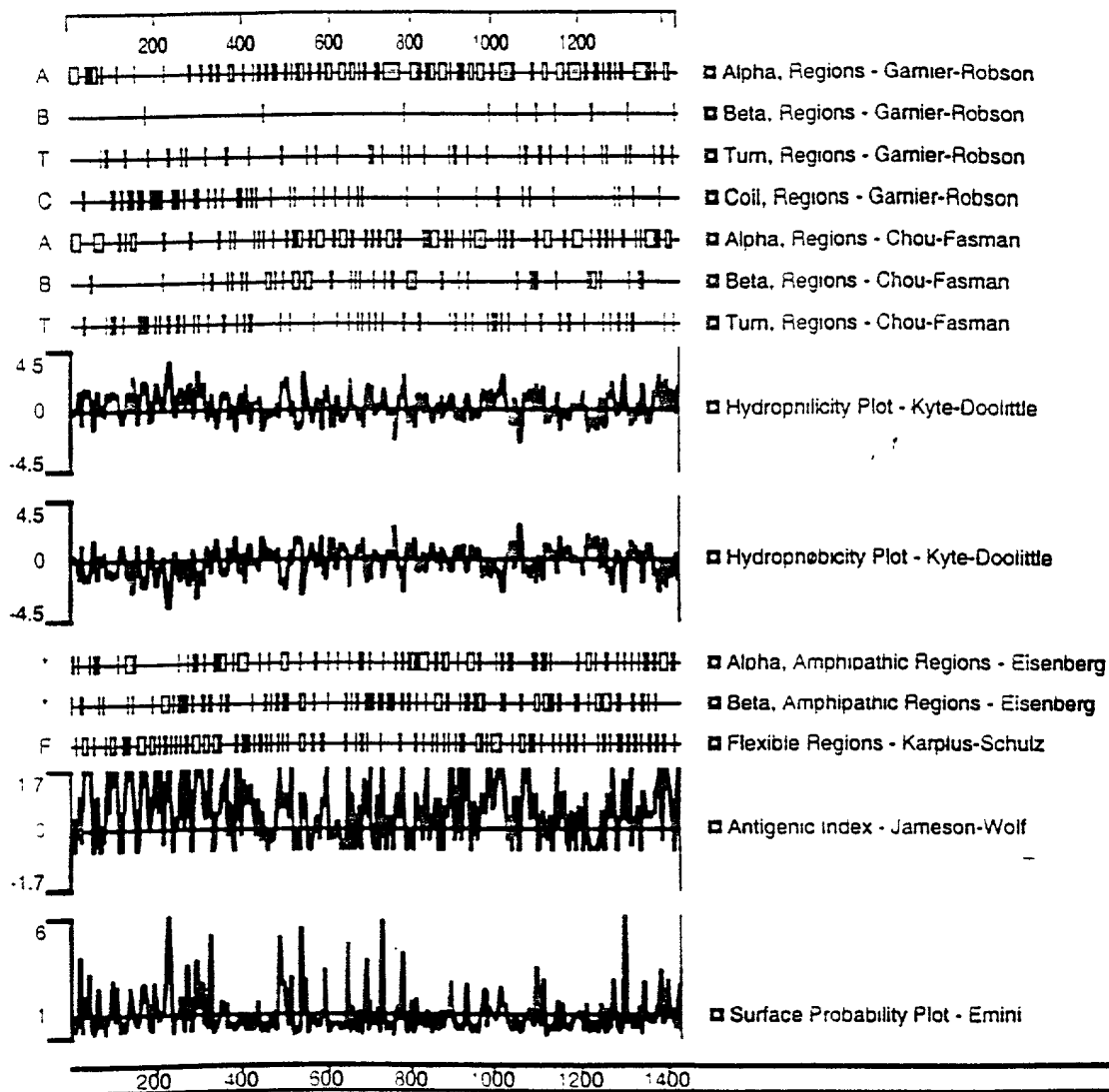


FIG. 3

TTGGTTCTCAACTTTCTTTGAAATAATGTTTCATAGAGAAGGAGGGCTGTCTGAGATTCCAGGGAACAAGCTCTCAGGA 79
 GTTCCGGTCCGCCATGATGGCTGTGGGGCGGTAAACCGCGTTAGTGCAAGCATCTGGGCCATCTTCAATGGTAAAAAAGAT 158
 ACAGTAAAGACATAAATACCACATTTGACAAATGGAAAAAAGGAGTGTCCAGAAAAGAGTAGCAGCAGTGAGGAAGAG 237

 CTGCCGAGACGGGTATACAGGGAGCTACCCCTGTGTTTCTGAGACCCCTTTGTGACATCTCACATTTTTTCCAGAAG 313
 M M R Q R Q S H Y C S V L F L S V N Y L 20
 ATG ATG AGA CAG AGG CAG AGC CAT TAT TGT TCC GTG CTG TTC CTG AGT GTC AAC TAT CTG 373
 G G T F P G D I C S E E N Q I V S S Y A 40
 GGG GGG ACA TTC CCA GGA GAC ATT TGC TCA GAA GAG AAT CAA ATA GTT TCC TCT TAT GCT 433
 S K V C F E I E E D Y K N R Q F L G P E 60
 TCT AAA GTC TGT TTT GAG ATC GAA GAA GAT TAT AAA AAT CGT CAG TTT CTG GGG CCT GAA 493
 G N V D V E L I D K S T N R Y S V W F P 80
 GGA AAT GTG GAT GTT GAG TTG ATT GAT AAG AGC ACA AAC AGA TAC AGC GTT TGG TTC CCC 553
 T A G W Y L W S A T G L G F L V R D E V 100
 ACT GCT GGC TGG TAT CTG TGG TCA GCC ACA GGC CTC GGC TTC CTG GTA AGG GAT GAG GTC 613
 T V T I A F G S W S Q H L A L D L Q H H 120
 ACA GTG ACG ATT GCG TTT GGT TCC TGG AGT CAG CAC CTG GCC CTG GAC CTG CAG CAC CAT 673
 E Q W L V G G P L F D V T A E P E E A V 140
 GAA CAG TGG CTG GTG GGC GGC CCC TTG TTT GAT GTC ACT GCA GAG CCA GAG GAG GCT GTC 733
 A E I H L P H F I S L Q G E V D V S W F 160
 GCC GAA ATC CAC CTC CCC CAC TTC ATC TCC CTC CAA GGT GAG GTG GAC GTC TCC TGG TTT 793
 L V A H F K N E G M V L E H P A R V E P 180
 CTC GTT GCC CAT TTT AAG AAT GAA GGG ATG GTC CTG GAG CAT CCA GCC CGG GTG GAG CCT 853
 F Y A V L E S P S F S L M G I L L R I A 200
 TTC TAT GCT GTC CTG GAA AGC CCC AGC TTC TCT CTG ATG GGC ATC CTG CTG CGG ATC GCC 913
 S G T R L S I P I T S N T L I Y Y H P H 220
 AGT GGG ACT CGC CTC TCC ATC CCC ATC ACT TCC AAC ACA TTG ATC TAT TAT CAC CCC CAC 973
 P E D I K F H L Y L V P S D A L L T K A 240
 CCC GAA GAT ATT AAG TTC CAC TTG TAC CTT GTC CCC AGC GAC GCC TTG CTA ACA AAG GCG 1033
 I D D E E D R F H G V R L Q T S P P M E 260
 ATA GAT GAT GAG GAA GAT CGC TTC CAT GGT GTG CGC CTG CAG ACT TCG CCC CCA ATG GAA 1093
 P L N F G S S Y I V S N S A N L K V M P 280
 CCC CTG AAC TTT GGT TCC AGT TAT ATT GTG TCT AAT TCT GCT AAC CTG AAA GTA ATG CCC 1153
 K E L K L S Y R S P G E I Q H F S K F Y 300
 AAG GAG TTG AAA TTG TCC TAC AGG AGC CCT GGA GAA ATT CAG CAC TTC TCA AAA TTC TAT 1213
 A G Q M K E P I Q L E I T E K R H G T L 320
 GCT GGG CAG ATG AAG GAA CCC ATT CAA CTT GAG ATT ACT GAA AAA AGA CAT GGG ACT TTG 1273
 V W D T E V K P V D L Q L V A A S A P P 340
 GTG TGG GAT ACT GAG GTG AAG CCA GTG GAT CTC CAG CTT GTA GCT GCA TCA GCC CCT CCT 1333
 P F S G A A F V K E N H R Q L Q A R M G 360
 CCT TTC TCA GGT GCA GCC TTT GTG AAG GAG AAC CAC CGG CAA CTC CAA GCC AGG ATG GGG 1393
 D L K G V L D D L Q D N E V L T E N E K 380
 GAC CTG AAA GGG GTG CTC GAT GAT CTC CAG GAC AAT GAG GTT CTT ACT GAG AAT GAG AAG 1453
 E L V E Q E K T R Q S K N E A L L S M V 400

FIG. 4A

GAG CTG GTG GAG CAG GAA AAG ACA CGG CAG AGC AAG AAT GAG GCC TTG CTG AGC ATG GTG 1513
 E K K G D L A L D V L F R S I S E R D P 420
 GAG AAG AAA GGG GAC CTG GCC CTG GAC GTG CTC TTC AGA AGC ATT AGT GAA AGG GAC CCT 1573
 Y L V S Y L R Q Q N L * 432
 TAC CTC GTG TCC TAT CTT AGA CAG CAG AAT TTG TAA 1609
 AATGAGTCAGTTAGGTAGTCTGGAAGAGAGAATCCAGCGTTCTCATTGGAATGGATAAACAGAAATGTGATCATTGAT 1688
 TTCAGTGTTCAGACAGAAGAAGACTGGGTAACATCTATCACACAGGCTTTCAGGACAGACTTGTAACTGGCATGTAC 1767
 CTATTGACTGTATCCTCATGCATTTTCTCAAGAATGTCTGAAGAAGGTAGTAATATTCTTTTAAATTTTTTCCAACC 1846
 ATTGCTTGATATATCACTATTTTATCCATTGACATGATTCTTGAAGACCCAGGATAAAGGACATCCGGATAGGTGTGTT 1925
 TATGAAGGATGGGGCTGGAAAGGCAACTTTTCTGATTAAATGTGAAAAATAATTCCTATGGACACTCGGTTGAAGTA 2004
 TCACCTTCTCATACTAAAAGCAGAAAAGCTAACAAAAGCTTCTCAGCTGAGGACACTCAAGGCATACATGATGACAGT 2083
 CTTTTTTTTTTTTGTATGTTAGGACTTTAACACTTTATCTATGGCTACTGTTATTAGAACAATGTAAATGTATTTGCTG 2162
 AAAGAGAGCACAAAAATGGGAGAAAAATGCAACATGAGCAGAAAAATATTTTCCCACTGGTGTGTAGCCTGCTACAAGGA 2241
 GTTGTGGGTAAATGTTTCATGGTCACTCCAGGAATACTGAGATGAAATGTGGTAAATCAACTCCACAGAACCACCA 2320
 AAAAGAAAATGAGGGTAATTCAGCTTATTCGAGACAGACATTCCTGGCAATGTACCATACAAAAATAAGCCCACTCT 2399
 GACATTTGGATTCTACCATAGACTCTGTCTATTTGTAGCCATTTTCAGCTGTCTTTTGATTAAATGTTTTCGTGGCACACA 2478
 TATTTCCATCCTTTTATGTTTAACTGTTTAAAAACAAGTTCCTAGTAGACACCATCTGGTTGAGTCAGTTTTTTTTATG 2557
 GTGTATTTTGAACCCATTCGTATAGTCTCTTTTAACTGGAAGATTTCAATTACTTACGTTAATGTAATTATTAATATGT 2636
 TAGGATTTATCCTCAGTCAGCCAGTTTGTATGTCTTTTCTATTCTACTGTTATCACATTTGTACCACTTAAAGTGGAA 2715
 TCTAGGCACCTTTATCACCATTAGATCCTATTACCTTTTCTCATCTAGGATATAGTTATCTTCTACATAATCTTTCTGT 2794
 ATCTTAAACCCATCAATAAATTATTATATATTTTCTACTTTTAACTCACTCAGAAGATTTAAAAAACTCATGAGAAGAG 2873
 TAATCTGTTATGTTTTTCCAGATATTTACCAATTCGTGTCTCTCTTCATTATTTTCCAAATTTCTGTCGCAAAAT 2952
 TCCACTTCTTCTGATAGACGTTTTTGTCTTTTAGAGTGGTTCTGATAGGTACAGATTCTCTTATTTTGTCTTCCT 3031
 CTGAGGACATCTTTTCTCACCTTCATTCTCAGTGATGTTTTTGTCTGTAGTATTTTGTGACATTGTTTTCTGTT 3110
 CAGCAGTTTCTTTTAGCTTCCGTATTTCTCATGAGAAATCTGCAGTCATTCAAATTGTTGTTTCCCTGTATGTAGTG 3189
 TGTCAATTTTCTGTGAGATTTCAAGGTATTTATCTTTAGTTTTAGCCATTTCAATTATGTTGGGGATGAGTTTCCTTGT 3268
 TTTATCCCTTGGAAATTTGCTCCAATTCATAAATTTGCAGTTTTATGTCTTTTACCAAACCTAGAGGTTTTCAGCCTA 3347
 ATTTCTAAAAATACTTTTATTAGCCTGATTTTCTATTTATAGGAAATAGTTTAAGTGATGACAAGTTCCAATAGCTT 3426
 ATATGCCCAGAAGGCCCTTCAAATAAGAATTTTGAAGAATACAGAAAACAACTTTTATATCCTTCTCATGTCTTCTA 3505
 CTGTAAAATTCATATGCTTTGCTACTCTAAACCTAGTTTGAAATCAACAGTCTTGAGAATAGATGAAAAATTTGATGAA 3584
 TAGTGGAAATCTTTTAAATGGAAACCTCTTACATGTGATTTTCTTGGCATCTAGAAATAAACCATAGTATTTATGTTG 3663
 AATCAATCAATATTATATTTGTTTTTTTCTCTCTCTCTGAGACTCTTATGTGGAAATGTTAGACTTTTATGTTTTT 3742
 CTAAATGTCCTGATATTTCTACTTATTTAGAACATCTTTTCATTTTCCATTATTCTGATTGGGTAATTTAATTTGT 3821
 CTATTTTCAAATTTGCTGGAGTGTTCACCTGTGTTGTCTGTGCTGCTGCCACTGAGTGCATTACCACCTTTTAAATTT 3900
 TGGTCACTGTATGTATCAGTTCTAAAAATTTCCATTTTGTCTCTATATTTTAAATTTCTTGGCTTATATTCTATTTTCC 3979

FIG. 4B

TGC A A A T G T G T C A G C A T T T G C T T G T T G A G C T T T T T T T T T T C A A G A C A G G G T C T C A A C T C T G T T A C C C A G G C T G G A G T 4058
 G C A G T G G T G C G A T C T C A G C T C A C T G C A A C C T C T G C C T C C T G T T C A A G C G A T T A T T G T G C C T C A G C C T C C T G A G T A G C T 4137
 G G G A T T A C A G G C A T G C A C C A C C A C A G C C C A G C T A A T T T T T G T A T T T T A G T A G A G A C A G A G T T T T G C T A T G T T G G C C A 4216
 G G C T G G T T T T G A A C T C C T G G C C T C A A G T G A T C C A C C C A C C T C A G C C T C C C A A A G T G C T G G G A T T A C A G G C C A C T A C A C C 4295
 T G G C A C A T T T G A G T A T T T T T T T T T T T T T T T T G A G A T G G A G T C T C G C T C T G T C A T C T A G G C T G G A G T G C A G T G G 4374
 T G T G A T C T C A G C T C A C T G C A G C C T C T G T C T C C G G G C T C A A G C G A T T C T C T T G C C T C A G C C T C C T G A G T A G C T A G G A C T 4453
 A C A G G T G C A T G C C A A C A C G C C C G G C T A A T T T T T T A A A A A A T A T T T T T A G T A G A G A C A G G G T T T C A C C A T T T T G G C C A G 4532
 G A T G G T C T C G A T C T C C T G A C C T C A T G A T C C A C C C G C C T C G G C C T C C A A A G T G C T G G G A T T A C A G G C A T G A G C C A C C C T 4611
 G C C T G G C C T C A T T T G A G T A T T T T A T A A T G T C T C T T T A A A G T C T T T G T C A G A T A A T T C C A C T G T A C A T G T T A T T C A G T 4690
 G T T T G G T G T C C A C T G A G T T G T C A T T T G C C A G A C A A G T G G A G A T T T T T G C A G C T C A T C C T T G T A T T C T C A G T A G T T C C G A 4769
 T A T G T A C C C T C G A C A T G T G A A T G T T A T C T T A T G A G A C T C T G T T T A T T G T A T C C A A C A G A A G A T G T T A T T A T T A T T 4848
 T G G C T T T C T G T G A A C T G A G G T C T T A A T A T C A G C T C A T T T T A A A A G T C T T T G C A G T G G T A T T C G G A T C T A T C C T G T G T 4927
 G C C T A T G A G A T T G G G T G C A G T G T A T C C T G T T A G C T C C A T T C T C A G G G C G T T T G A A T G T G A A T T A G G A C C A G C G C A A T G A 5006
 A T G C T C A A G T T G G G G T T G G G C G T T A G A A T T C A T A A A A G T C T T T A T A T G T C T A G 5059

FIG. 4C

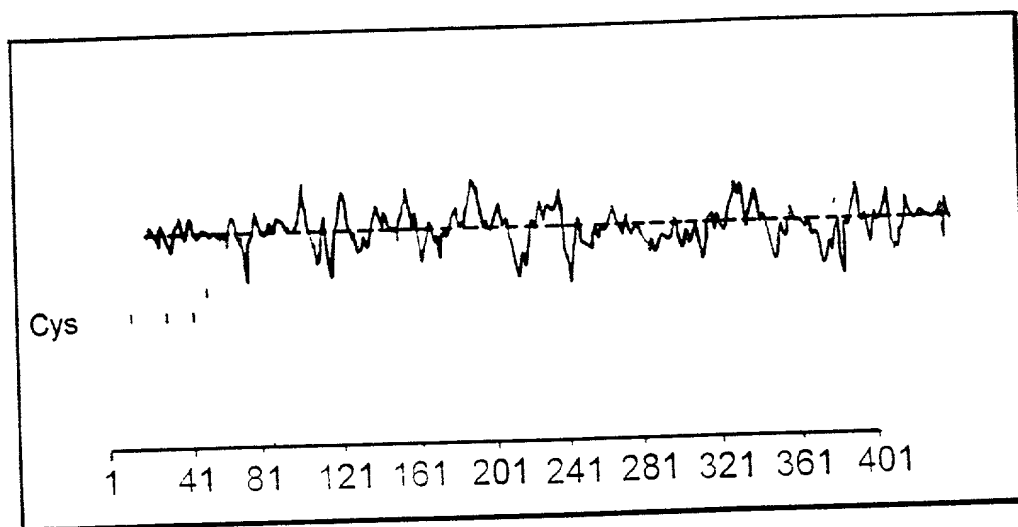


FIG. 5

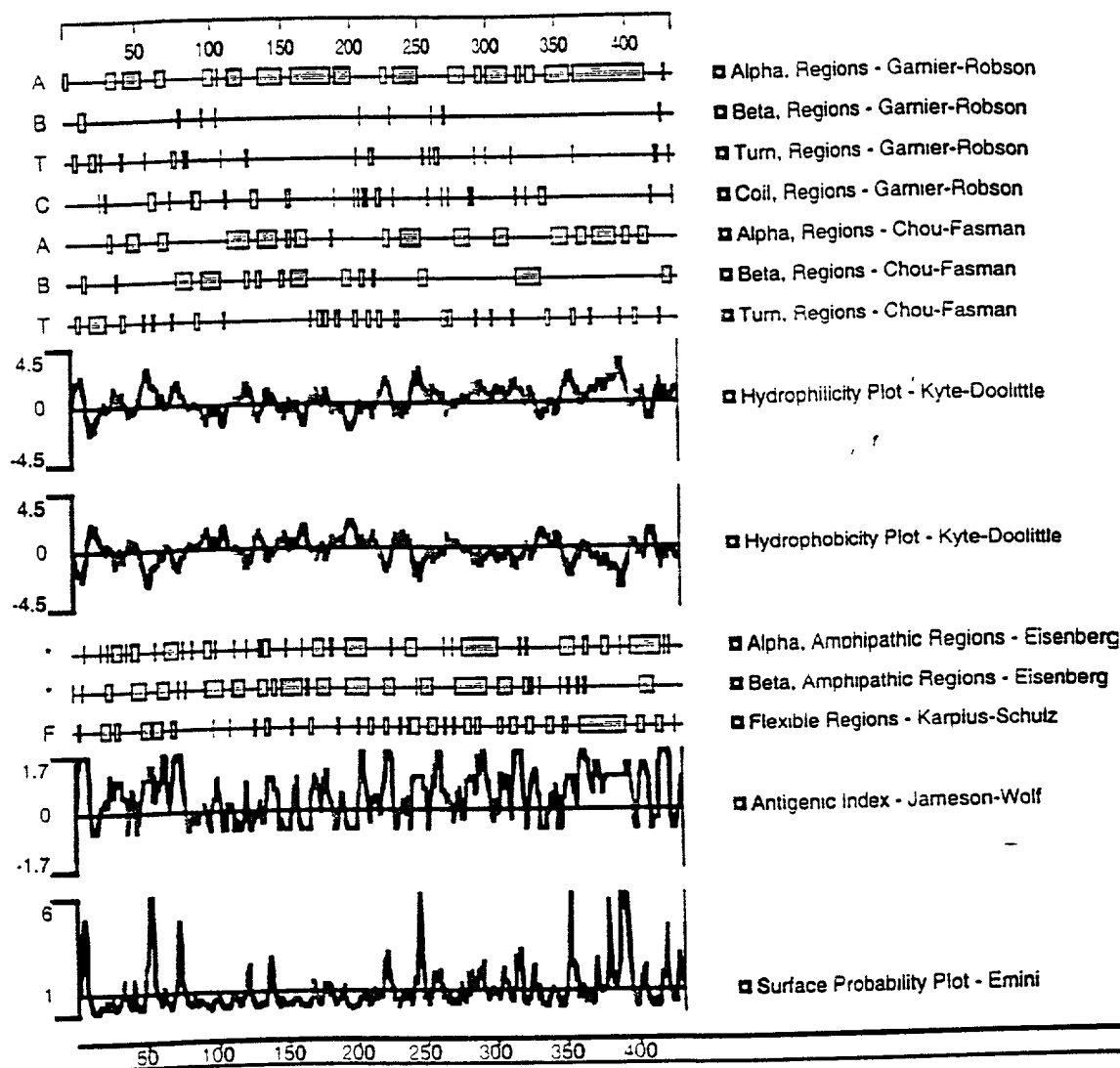


FIG. 6

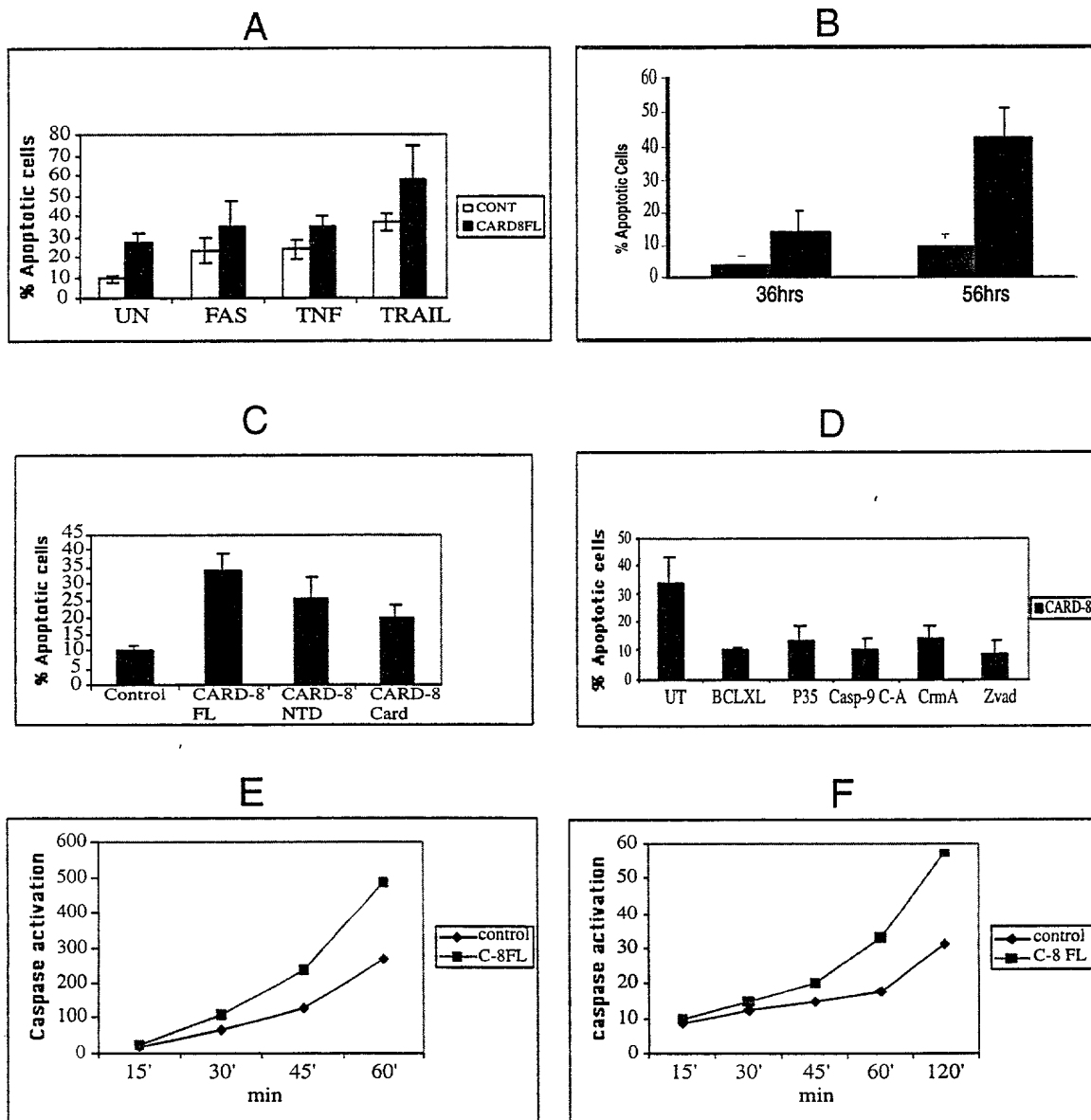
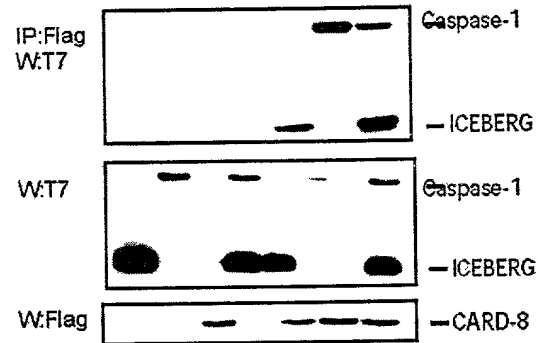


Fig. 8

T7 ICEBERG	+	-	-	+	+	-	+
T7Caspase-1 C-A	-	+	-	+	-	+	+
Flag CARD-8	-	-	+	-	+	+	+

A



T7Pseudo ICE	+	-	-	+	+	-	+
T7Caspase-1 C-A	-	+	-	+	-	+	+
Flag CARD-8	-	-	+	-	+	+	+

B

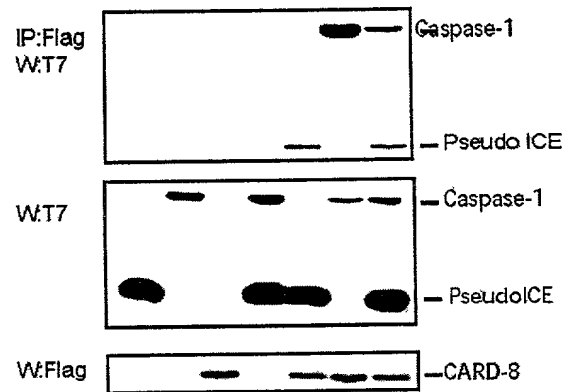


Fig. 10

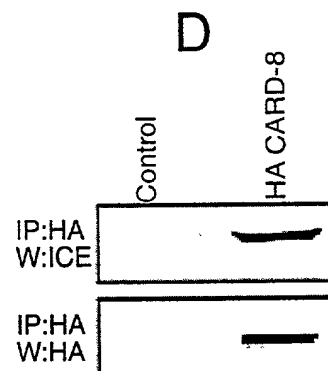
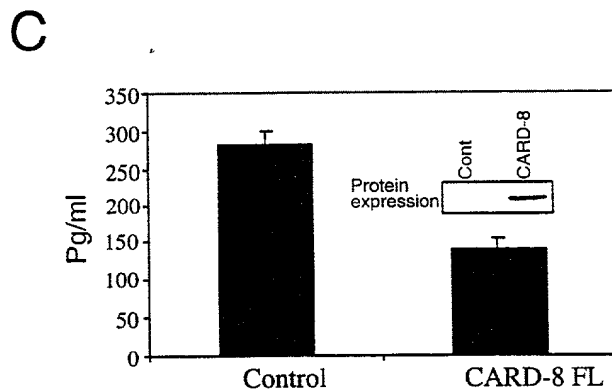
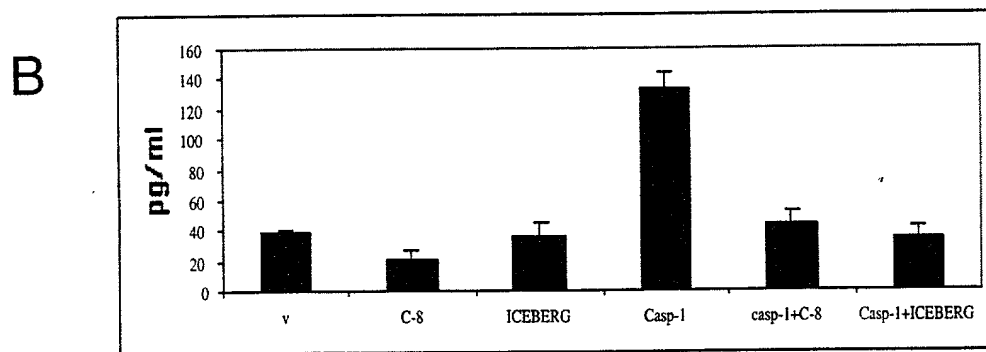
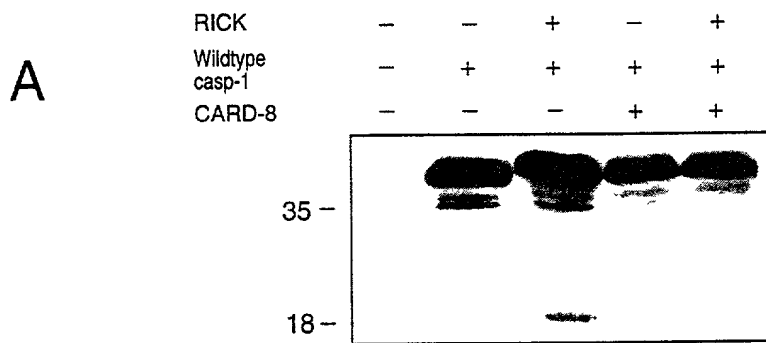


Fig. 11